# CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 74726

**CHEMISTRY REVIEW(S)** 

#### ANDA APPROVAL SUMMARY

ANDA: 74-726

DRUG PRODUCT: Potassium Chloride Extended-release Tablets USP

FIRM: Upsher-Smith

DOSAGE FORM: Tablets

STRENGTH: 20 mEg

CGMP STATEMENT/EIR UPDATE STATUS: EER update pending. BIO STUDY: Satisfactory per Bio review dated 3/12/98 (M.Park).

VALIDATION - (DESCRIPTION OF DOSAGE FORM SAME AS FIRM'S): N/A Compendial product. FDA MV not needed.

STABILITY -(ARE CONTAINERS USED IN STUDY IDENTICAL TO THOSE IN CONTAINER SECTION?):

Satisfactory data is provided for the largest and smallest bottle, the unit dose package and for the bulk container of tablets for the biobatch, lot #15112.

Containers used in the study are identical to those in the container section. Note: Firm requested withdrawal of the bulk container of tablets in an amendment dated 7/2/96.

LABELING: Satisfactory per Labeling review dated 8/7/96 (C.Park).

STERILIZATION VALIDATION (IF APPLICABLE): N/A

SIZE OF BIO BATCH - (FIRM'S SOURCE OF NDS O.K.?):

Biobatch granule: lots #B940456-B940461 kg per lot)

Biobatch compression: lot #15112 tablets)

The biobatch was manufactured on the production scale using production equipment (i.e., kg granulation and tablets).

NDS source: Co (DMF

OK

SIZE OF STABILITY BATCHES -(IF DIFFERENT FROM BIO BATCH WERE THEY MANUFACTURED VIA THE SAME PROCESS?): Same as the biobatch.

PROPOSED PRODUCTION BATCH -(MANUFACTURING PROCESS THE SAME AS BIO/STABILITY?):

Production batch size: Same batch size as the biobatch.

Manufacturing processes for both the biobatch and the production batch are identical.

REVIEWER:

DATE COMPLETED:

10/8/98

HFD-623/J.Fan/S/ c0/8/9x HFD-623/V. Sayeed, Ph.D.

x:\new\firmsnz\upsher\ltrs&rev\74726.sum

F/T by

#### ANDA APPROVAL SUMMARY

ANDA:74-726

DRUG PRODUCT: Potassium Chloride
Extended-release Tablets USP

FIRM: Upsher-Smith

DOSAGE FORM: Tablets

STRENGTH: 20 mEq

CGMP STATEMENT/EIR UPDATE STATUS: EER acceptable as of 12/5/96.

BIO STUDY: Satisfactory per Bio review dated 8/1/96

VALIDATION - (DESCRIPTION OF DOSAGE FORM SAME AS FIRM'S): N/A Compendial product. FDA MV not needed.

STABILITY - (ARE CONTAINERS USED IN STUDY IDENTICAL TO THOSE IN CONTAINER SECTION?):

Satisfactory data is provided for the largest and smallest bottle, the unit dose package and for the bulk container of tablets for the biobatch, lot #15112.

Containers used in the study are identical to those in the container section. Note: Firm requested withdrawal of the bulk container of 5000 tablets in an amendment dated 7/2/96.

LABELING: Satisfactory per Labeling review dated 8/7/96 (C.Park).

STERILIZATION VALIDATION (IF APPLICABLE): N/A

SIZE OF BIO BATCH - (FIRM'S SOURCE OF NDS O.K.?):

Biobatch granule: lots #B940456-B940461 kg per lot)

Biobatch compression: lot #15112 ( tablets)

The biobatch was manufactured on the production scale using production equipment (i.e., kg granulation and tablets).

NDS source:

(DMF

OK

SIZE OF STABILITY BATCHES - (IF DIFFERENT FROM BIO BATCH WERE THEY MANUFACTURED VIA THE SAME PROCESS?):

Same as the biobatch.

PROPOSED PRODUCTION BATCH - (MANUFACTURING PROCESS THE SAME AS BIO/STABILITY?):

Production batch size: Same batch size as the biobatch.

Manufacturing processes for both the biobatch and the production batch are identical.

REVIEWER:

J.Fan

HFD-623/J.Fan/11-12-96

HFD-623/V.Sayeed, Ph.D./J14-96

x:\new\firmsnz\upsher\ltrs&rev\74726.sum

F/T by MM December 9, 1996

- ANDA # 74-726 CHEMISTRY REVIEW NO. 1 2. 1. NAME AND ADDRESS OF APPLICANT 3. Upsher-Smith Laboratories, Inc. Attention: Mark S. Robbins, Ph.D. 14905 23rd Avenue North Minneapolis, MN 55447
  - BASIS OF SUBMISSION Paragraph IV certification 4. Key Pharmaceutical's K-DUR pat. #4863743, exp. Sept. 6, 2006.
  - SUPPLEMENT(s) N/A 5.
  - Klor-Con® 6. PROPRIETARY NAME
  - NONPROPRIETARY NAME 7.

### Potassium Chloride Extended-release Tablets USP

- SUPPLEMENT(s) PROVIDE(s) FOR: N/A 8.
- AMENDMENTS AND OTHER DATES: 9.

Date of application August 8, 1995

Withdrawal of 10mEq strength October 12, 1995 December 18, 1995 Notice of Patent Infringement Lawsuit.

- PHARMACOLOGICAL CATEGORY 10.
- 12. RELATED IND/NDA/DMF(s) See sec. 37 11. Rx or OTC Rx
- POTENCY 20mEq (1500mg) DOSAGE FORM oral ER tablet 14. 13.
- CHEMICAL NAME AND STRUCTURE As per USAN 15.
- RECORDS AND REPORTS N/A 16.
- COMMENTS Several deficiencies in bold throughout this review. 17.
- CONCLUSIONS AND RECOMMENDATIONS NA major 18.
- REVIEWER: Jon E. Clark DATE COMPLETED: February 13, 1996 19.
- ANDA 74-726 cc: DUP Jacket Division File

Endorsements:

2-13-96 HFD-623/J.Clark/ HFD-623/A.Rudman, Ph.D./Acting Supervisor/ X:\NEW\FIRMSNZ\UPSHER\LTRS&REV\74726NA1.CR F/T by

**/**S/

4/26/C6

Redacted 7

pages of trade

secret and/or

confidential

commercial

information Chem Review#1

- CHEMISTRY REVIEW NO. 2 2. ANDA # 74-726 1. NAME AND ADDRESS OF APPLICANT 3. Upsher-Smith Laboratories, Inc. Attention: Mark S. Robbins, Ph.D. 14905 23rd Avenue North Minneapolis, MN 55447 BASIS OF SUBMISSION Paragraph IV certification 4. Key Pharmaceutical's K-DUR® pat. #4863743, exp. Sept. 5, 2006. SUPPLEMENT(s) N/A 5. Klor-Con<sup>®</sup> M20 PROPRIETARY NAME 6. NONPROPRIETARY NAME 7. Potassium Chloride Extended-release Tablets USP SUPPLEMENT(s) PROVIDE(s) FOR: N/A 8. AMENDMENTS AND OTHER DATES: 9. FDA: 3/27/96 NA letter issued. Firm: Date of application 8/8/95 Correspondence 4/4/96 Response to NA letter dated 3/27/96. 7/2/96 PHARMACOLOGICAL CATEGORY 10. RELATED IND/NDA/DMF(s) See sec. 37 Rx or OTC Rx 12. 11. POTENCY 20mEg (1500mg) DOSAGE FORM oral ER tablet 14. 13. CHEMICAL NAME AND STRUCTURE As per USAN 15. RECORDS AND REPORTS N/A 16. CONCLUSIONS AND RECOMMENDATIONS 18. Tentative approval. EER acceptabe as of 12/5/96

  - REVIEWER: J.Fan DATE COMPLETED: 11/8/96 19.
  - ANDA 74-726 cc: ANDA 74-726/Division File

HFD-623/J.Fan/11-12-96 | S | /2//6/96 | S | /2/18/96. 12/18/96. Endorsements:

F/T by: MM December 9, 1996 Approval Letter

pages of trade

secret and/or

confidential

commercial

information

Chem#2

- ANDA # 74-726 CHEMISTRY REVIEW NO. 3 2. 1.
- NAME AND ADDRESS OF APPLICANT 3. Upsher-Smith Laboratories, Inc. Attention: Mark S. Robbins, Ph.D. 14905 23rd Avenue North Minneapolis, MN 55447
- BASIS OF SUBMISSION Paragraph IV certification 4. Key Pharmaceutical's K-DUR® pat. #4863743, exp. Sept. 5, 2006.

Note: In a correspondence dated 2/13/98 firm provided a "Stipulation of Dismissal Without Prejudice" stating the court settlement regarding the patent litigation involving the referenced drug product between Key Pharamaceutical and the ANDA holder.

SUPPLEMENT(s) N/A 5.

Endorsements:

F/T by: bc/10-20-98

- PROPRIETARY NAME Klor-Con®
- NONPROPRIETARY NAME

## Potassium Chloride Extended-release Tablets USP

```
SUPPLEMENT(s) PROVIDE(s) FOR: N/A
8.
     AMENDMENTS AND OTHER DATES:
9.
                    NA letter issued.
     FDA: 3/27/96
                    Bio letter issued.
          9/6/96
                    Bio letter issued.
          3/3/97
                    TA letter issued.
          3/6/97
          6/18/98 Bio letter issued.
     Firm:
               Date of application
     8/8/95
               Correspondence
     4/4/96
               Response to NA letter dated 3/27/96.
     7/2/96
     2/12/97
               New corr (Bio)
     3/14/97 New corr (Bio)
               New corr (Bio)
     3/24/97
     11/7/97
               New corr (Bio)
               New corr (Notification of Stipulation of Dismissal)
     2/13/98
     8/20/98 Amendment (This review)
               Amendment (This review)
     9/2/98
     9/24/98
                Tel.amendment (This review)
     PHARMACOLOGICAL CATEGORY
10.
                               RELATED IND/NDA/DMF(s) See sec. 37
     Rx or OTC Rx
                          12.
11.
                                         POTENCY 20mEq (1500mq)
     DOSAGE FORM oral ER tablet
                                    14.
13.
     CONCLUSIONS AND RECOMMENDATIONS
18.
     Approval pending EER update.
                          DATE COMPLETED: 10/8/98
     REVIEWER: J.Fan
19.
     ANDA 74-726
     ANDA 74-726/Division File
     HFD-623/J.Fan/10-8-98/C/-10/20/48/S/
HFD-623/V.Sayeed, Ph.D./10-16/98//S/
```

X:\NEW\FIRMSNZ\UPSHER\LTRS&REV\74726N3.D

Redacted 4

pages of trade

secret and/or

confidential

commercial

information

Chem #3